

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2015 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

**San Joaquin River Basin**

<b>RD2089</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2089 Stark</b>	<b>U</b>	<b>2.86</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.31	1.02	4.39	153.61%	0.01			
Trim / Thin Trees		0.01	0.04	1.40%				
Encroachments	0.04		0.04	1.40%	0.43	0.07		
Animal Control	0.11	0.15	0.71	24.84%				
Slope Stability	0.13		0.13	4.55%				
Erosion / Bank Caving	0.01		0.01	0.35%				
Crown Surface / Depressions / Rutting	0.06		0.06	2.10%				
<i>Supplemental</i>								
DWR Erosion Survey	0.04	0.01	0.08	2.80%				
DWR UCIP Field Study					0.04	0.03		
<i>LMA Totals:</i>	0.70	1.19	5.46	191.05%	0.48	0.10	0.00	0.00

<b>Unit No. 01 Old River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2089</b>	<b>U</b>	<b>1.51</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.26	0.33	1.58	104.48%				
Trim / Thin Trees		0.01	0.04	2.65%				
Encroachments	0.02		0.02	1.32%	0.39			
Animal Control	0.02	0.02	0.10	6.61%				
Slope Stability	0.13		0.13	8.60%				
Crown Surface / Depressions / Rutting	0.04		0.04	2.65%				
<i>Supplemental</i>								
DWR Erosion Survey	0.03	0.01	0.07	4.63%				
DWR UCIP Field Study					0.03	0.03		
<i>Unit Totals:</i>	0.50	0.37	1.98	130.93%	0.42	0.03	0.00	0.00

<b>Unit No. 02 Salmon Slough RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2089</b>	<b>U</b>	<b>1.35</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.05	0.69	2.81	208.83%	0.01			
Encroachments	0.02		0.02	1.49%	0.04	0.07		
Animal Control	0.09	0.13	0.61	45.33%				
Erosion / Bank Caving	0.01		0.01	0.74%				
Crown Surface / Depressions / Rutting	0.02		0.02	1.49%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01		0.01	0.74%				
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.20	0.82	3.48	258.62%	0.06	0.07	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2015 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 01 Old River			Right	1.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/05/2015 - 05/08/2015		09/29/2015 - 09/29/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Mario Jaques			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD2089_01_s _ 2013_4				
Action/Comments					
Inspector Comments: The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	15	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_RD2089_01_s _ 2013_15					
Action/Comments						
Inspector Comments: The LMA has flood fighting supplies on-site.						

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2089_01_s _ 2013_34				
Action/Comments					
Inspector Comments: The LMA has flood fight training and an emergency plan.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.00	Rating **	M	Issue No.	9
LM End	0.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811681 °	37.809755 °
				-121.384930 °	-121.391520 °
DWR ID	DWR_RD2089_01_s_2012_9				
Action/Comments					
Ditch					
Inspector Comments: 05/24/2011 Photo added of Ag ditch.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_9\_20150910\_00006.jpg



05/24/2011 Ditch flows parallel with the utility line shown in the photo.

LM Start	0.04	Rating **	M	Issue No.	1
LM End	0.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811474 °	37.811474 °
				-121.385573 °	-121.385573 °
DWR ID	DWR_RD2089_01_s_2012_1				
Action/Comments					
Stairway					
Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_1\_20150910\_00001.jpg



View of the stairs eroding into the landside levee slope.

LM Start	0.05	Rating **	M	Issue No.	42
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.811418 °	37.811048 °
				-121.385877 °	-121.387242 °
DWR ID	DWR_RD2089_01_f_2013_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_42\_20151005\_00036.jpg



View of the tall vegetation obstructing visibility of the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.06	Rating **	M	Issue No.	22
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.811381 °	37.811201 °
				-121.386027 °	-121.386722 °
DWR ID	DWR_RD2089_01_f_2015_22				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_22\_20151005\_00037.jpg



View of the tall vegetation obstructing visibility of the waterside levee slope.

LM Start	0.24	Rating **	M	Issue No.	940
LM End	0.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810412 °	37.810412 °
				-121.389115 °	-121.389115 °
DWR ID	DWR_RD2089_01_s_2012_940				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_940\_20150910\_00030.jpg



The LMA is actively trying to remove the vegetation on the landside levee slope and toe.

LM Start	0.27	Rating **	U	Issue No.	12
LM End	0.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810319 °	37.809740 °
				-121.389510 °	-121.391645 °
DWR ID	DWR_RD2089_01_s_2012_12				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Access and visibility completely blocked. 11/10/2011 issue has not changed.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_12\_20151005\_00038.jpg



Thick brush and wild rose completely block access and visibility of landside slope and toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.32	Rating **	M	Issue No.	6
LM End	0.33	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809833 °	37.809833 °
				-121.390261 °	-121.390261 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the eroiosn site. [2015 Site ID:RD2089U01RM29.94]					

Photo 1 of 1 : SJR2015\_RD2089U01RM29.94\_1.jpg



Front view of the erosion site. Note the large tree above the erosion.

LM Start	0.33	Rating **	U	Issue No.	19
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809983 °	37.809983
				-121.390678 °	-121.390678
DWR ID	DWR_RD2089_01_s_2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo completely blocks access and visibility.11/10/2011 Arundo has been trimmed back from the roadway, but still completely blocks access and visibilit to the landside slope. This plant was improperly identified as bamboo in previous inspections.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_19\_20151005\_00039.jpg



Arundo has been trimmed back from the road, but needs to be removed so that it does not obstruct visibility and access to the landside toe.

LM Start	0.37	Rating **	U	Issue No.	946
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.809865 °	37.809865 °
				-121.391303 °	-121.391303 °
DWR ID	DWR_RD2089_01_s_2012_946				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_946\_20150910\_00031.jpg



Trees on levee slope obstruct access and visibility.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.41	Rating **	U	Issue No.	28
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809593 °	37.809507 °
				-121.391963 °	-121.392907 °
DWR ID	DWR_RD2089_01_s _ 2012_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation is too thick to allow access and visibility.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_28\_20150910\_00016.jpg



05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

LM Start	0.46	Rating **	M	Issue No.	958
LM End	0.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.809501 °	37.809501 °
				-121.392798 °	-121.392798 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21635					
DS_ID:23042					
EP_NO: 5641					
FS_HLM: 0.4614					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - damaged siphon breaker.- most of the pipe on					
landside exposed on levee slope.					
FIELD_STRUCT_DESC: 20-inch steel pipe and electric conduit through					
the levee, 5.8 feet below the crown, pump on pile structure in the					
stream. Siphon breaker on the landward slope. (App. No. 5641- Ted					
Stark)					
FS Date: 09/12/2013					

Photo 1 of 3 : UCIP\_FA\_2015\_2272.jpg



LS view: overview of exposed steel pipe (right) on levee slope and service pole (left).

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.46	Rating **	M	Issue No.	958 (cont)
LM End	0.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.809501 °	37.809501 °
				-121.392798 °	-121.392798 °
DWR ID					

**Action/Comments**

Inspector Comments: FS\_ID:21635  
 DS\_ID:23042  
 EP\_NO: 5641  
 FS\_HLM: 0.4614  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - damaged siphon breaker.- most of the pipe on landside exposed on levee slope.  
 FIELD\_STRUCT\_DESC: 20-inch steel pipe and electric conduit through the levee, 5.8 feet below the crown, pump on pile structure in the stream. Siphon breaker on the landward slope. (App. No. 5641- Ted Stark)  
 FS Date: 09/12/2013

LM Start	<b>0.46</b>	Rating **	M	Issue No.	<b>958 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP\_FA\_2015\_2281.jpg



WS view: steel walkway, electric control box, and pump on steel piling structure in the channel.

Photo 3 of 3 : UCIP\_FA\_2015\_2282.jpg



WS view: walkway to pump platform and pump on steel piling structure in the channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.46	Rating **	M	Issue No.	5
LM End	0.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809394 °	37.809394 °
				-121.392791 °	-121.392791 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site shows loose material around the pipe crossing.					

LM Start	<b>0.46</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2015\_RD2089U01RM29.8\_8.jpg



Close view of the site.

Photo 2 of 2 : SJR2015\_RD2089U01RM29.8\_9.jpg



Front view of the site.

LM Start	0.48	Rating **	U	Issue No.	30
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809665 °	37.809665 °
				-121.393219 °	-121.393219 °
DWR ID	DWR_RD2089_01_s_2012_30				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead growth is too thick to allow access during flood fight situation and completely obstructs visibility of the landside toe.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_30\_20150910\_00017.jpg



05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
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**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	14
LM End	0.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.810087 °	37.810087 °
				-121.394200 °	-121.394200 °
DWR ID	DWR_RD2089_01_s_2012_14				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Minor depressions will cause ponding.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_14\_20150910\_00008.jpg



11/10/2011 Depressions in crown.

LM Start	0.63	Rating **	U	Issue No.	18
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810048 °	37.809641 °
				-121.395762 °	-121.396709 °
DWR ID	DWR_RD2089_01_s_2012_18				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Waterside vegetation is too thick to allow access and visibility.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_18\_20150910\_00011.jpg



11/10/2011 Vegetation needs to be cleared on the upper 20' of the waterside slope.

LM Start	0.65	Rating **	U	Issue No.	31
LM End	0.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809975 °	37.809822 °
				-121.396107 °	-121.396376 °
DWR ID	DWR_RD2089_01_s_2012_31				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dead brush needs to be removed, too thick to allow access and obstructs visibility of levee slope and toe					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_31\_20150910\_00018.jpg



05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.67	Rating **	U	Issue No.	3
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809780 °	37.809780 °
				-121.396230 °	-121.396230 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site.  
 09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.  
 08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."  
 09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U".  
 11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2015 Site ID:RD2089U01RM29.61]

Photo 1 of 3 : SJR2015\_RD2089U01RM29.61\_3.jpg



Front view of the site. Note the erosion is invisible because of the dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	<b>0.67</b>	Rating **	U	Issue No.	<b>3 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809780 °	37.809780 °
				-121.396230 °	-121.396230 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site.  
 09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.  
 08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."  
 09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U".  
 11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2015 Site ID:RD2089U01RM29.61]

Photo 2 of 3 : SJR2015\_RD2089U01RM29.61\_4.jpg



Front view of the site. The scarp is visible on the slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.67	Rating **	U	Issue No.	3 (cont)	
LM End	0.67	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.809780 °	37.809780 °	
				-121.396230 °	-121.396230 °	
DWR ID						
Action/Comments						
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site. 09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities. 08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion." 09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U". 11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2015 Site ID:RD2089U01RM29.61]						

Photo 3 of 3 : SJR2015\_RD2089U01RM29.61\_9.jpg



Front view of the site.

LM Start	0.71	Rating **	M	Issue No.	20
LM End	0.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809516 °	37.808909 °
				-121.396955 °	-121.397557 °
DWR ID	DWR_RD2089_01_s_2012_20				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: 11/10/2011 Dead vegetation prohibits visibility of the landside toe.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_20\_20150910\_00013.jpg



11/10/2011 Vegetation obstructs visibility of slope and toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.80	Rating **	M	Issue No.	959
LM End	0.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.808387 °	37.808387 °
				-121.397843 °	-121.397843 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21587 DS_ID:23043 EP_NO: 3385 FS_HLM: 0.8125 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - powerline on landside.- electric control box on waterside.- waterside slope erosion under pump platform. FIELD_STRUCT_DESC: 16-inch pipe through the levee, 5.5 feet below the crown, slant pump in pump house on the waterward slope. Siphon breaker on the landward slope. (App. No. 3385-Elinore Lawrence). Originally included in O+M (1968) FS Date: 09/12/2013					

LM Start	<b>0.80</b>	Rating **	M	Issue No.	<b>959 (cont)</b>
LM End	<b>0.80</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP\_FA\_2015\_2413.jpg



LS view: exposed pipe with siphon breaker on levee slope. Concrete standpipe on levee toe.

Photo 2 of 3 : UCIP\_FA\_2015\_2414.jpg



WS view: soil erosion under pump platform. Needs mitigation measures to stop erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.80	Rating **	M	Issue No.	959 (cont)
LM End	0.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.808387 °	37.808387 °
				-121.397843 °	-121.397843 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21587					
DS_ID:23043					
EP_NO: 3385					
FS_HLM: 0.8125					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP\_FA\_2015\_2415.jpg



WS view: slant pump on wooden platform. Oil leaks from the pump.

LM Start	0.81	Rating **	M	Issue No.	17
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.808319 °	37.806453 °
				-121.397881 °	-121.397755 °
DWR ID	DWR_RD2089_01_f_2014_17				
Action/Comments					
Repair slope instability.					
Inspector Comments: Landside levee toe cut due to farming.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_17\_20150910\_00010.jpg



View of the vertical cut along the landside levee toe.

LM Start	0.83	Rating **	U	Issue No.	36
LM End	0.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807938 °	37.807292 °
				-121.397898 °	-121.397735 °
DWR ID	DWR_RD2089_01_s_2012_36				
Action/Comments					
Trees / Woody Vegetation					
Inspector Comments: Tall weeds and brush on top 20' of waterside slope obstruct visibility.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_36\_20151005\_00040.jpg



View of tall willows obstructing visibility on waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.94	Rating **	M	Issue No.	33
LM End	0.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806397 °	37.806397 °
				-121.397758 °	-121.397758 °
DWR ID	DWR_RD2089_01_s _ 2012_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Arundo on waterside impedes visibility and access to waterside slope.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_33\_20150910\_00019.jpg



11/10/2011 Arundo on upper 20' of waterside slope.

LM Start	0.95	Rating **	M	Issue No.	35
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806264 °	37.806083 °
				-121.397961 °	-121.398920 °
DWR ID	DWR_RD2089_01_s _ 2012_35				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_35\_20150910\_00020.jpg



Thick vegetation on upper 20' of waterside slope obstructing visibility and access.

LM Start	1.02	Rating **	M	Issue No.	956
LM End	1.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806026 °	37.806026 °
				-121.399206 °	-121.399206 °
DWR ID	DWR_RD2089_01_s _ 2012_956				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.07	Rating **	U	Issue No.	957
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805848 °	37.805848
				-121.400003 °	-121.400003
DWR ID	DWR_RD2089_01_s_2012_957				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access.					

No Photos

LM Start	1.12	Rating **	U	Issue No.	16
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.805699 °	37.805699
				-121.400952 °	-121.400952
DWR ID	DWR_RD2089_01_f_2014_16				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_16\_20150910\_00009.jpg



View of the rodent burrow on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.14	Rating **	U	Issue No.	960
LM End	1.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.805644 °	37.805644 °
				-121.401177 °	-121.401177 °
DWR ID					

**Action/Comments**

Inspector Comments: FS\_ID:21754  
 DS\_ID:23044  
 EP\_NO: 3585  
 FS\_HLM: 1.544  
 Repair Type: Urgent  
 Crossing Status: Found  
 UCIP Comments: - huge slope erosion on landside slope.- most of the pipe exposed on levee slope.- service pole on landside.  
 FIELD\_STRUCT\_DESC: 12-inch pipe through levee, 3.0 feet below the crown. Pump over concrete pipe in drain ditch on the landside. Siphon breaker on the waterside slope and air vent on landside. (App. No. 3585 - Elinore Lawrence). Originally included in O+M (1968)  
 FS Date: 09/12/2013

LM Start	<b>1.14</b>	Rating **	U	Issue No.	<b>960 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP\_FA\_2015\_2507.jpg



LS view: air vent on steel pipe near walkway at levee toe.

Photo 2 of 3 : UCIP\_FA\_2015\_2508.jpg



WS view: siphon breaker on pipe hinge on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.14	Rating **	U	Issue No.	960 (cont)
LM End	1.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.805644 °	37.805644 °
				-121.401177 °	-121.401177 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21754					
DS_ID:23044					
EP_NO: 3585					
FS_HLM: 1.544					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP\_FA\_2015\_2509.jpg



WS view: most of the waterside pipe exposed on levee slope.

LM Start	1.19	Rating **	A/W	Issue No.	25
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805663 °	37.805663 °
				-121.402151 °	-121.402151 °
DWR ID	DWR_RD2089_01_s_2012_25				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Arrundo was trimmed back but may creep up the waterside levee slope if not maintained.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_25\_20150910\_00015.jpg



View of the Arrundo on the waterside slope obstructing visibility. LMA is actively trying to remove the wild growth.

LM Start	1.22	Rating **	M	Issue No.	43
LM End	1.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.805735 °	37.805735 °
				-121.402614 °	-121.402614 °
DWR ID	DWR_RD2089_01_s_2012_43				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					
Inspector Comments: 11/10/2011 Depression needs to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_43\_20150910\_00023.jpg



11/10/2011 Depression in roadway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.23	Rating **	M	Issue No.	2
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.805580 °	37.805580 °
				-121.403010 °	-121.403010 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. [2015 Site ID:RD2089U01RM29.04]					

Photo 1 of 2 : SJR2015\_RD2089U01RM29.04\_1.JPG



View of the erosion from the survey boat.

LM Start	<b>1.23</b>	Rating **	M	Issue No.	<b>2 (cont)</b>
LM End	<b>1.24</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015\_RD2089U01RM29.04\_4.JPG



Close view of the site. Note the tree and the vegetation.

LM Start	1.23	Rating **	M	Issue No.	44
LM End	1.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.805801 °	37.805801 °
				-121.402913 °	-121.402913 °
DWR ID	DWR_RD2089_01_s_2012_44				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression in roadway needs to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_44\_20150910\_00024.jpg



11/10/2011 Roadway depression.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.34	Rating **	M	Issue No.	45
LM End	1.34	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.806128 °	37.806128 °
				-121.404890 °	-121.404890 °
DWR ID	DWR_RD2089_01_s _ 2012_45				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_45\_20150910\_00025.jpg



11/10/2011 Roadway depression.

LM Start	1.40	Rating **	M	Issue No.	47
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.806268 °	37.806268 °
				-121.405874 °	-121.405874 °
DWR ID	DWR_RD2089_01_s _ 2012_47				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 11/10/2011 No rodents visible, but active burrows are present.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_47\_20150910\_00027.jpg



11/10/2011 Active rodent burrow on landside slope.

LM Start	1.40	Rating **	M	Issue No.	46
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.806266 °	37.806266 °
				-121.405876 °	-121.405876 °
DWR ID	DWR_RD2089_01_s _ 2012_46				
Action/Comments					
Tree or limb					
Inspector Comments: 11/10/2011 Downed tree at levee toe prevents access to levee from landside.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_46\_20150910\_00026.jpg



Decaying tree at the landside levee toe is obstructing visibility and access.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.40	Rating **	U	Issue No.	26
LM End	1.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.806306 °	37.806306 °
				-121.405952 °	-121.405952 °
DWR ID	DWR_RD2089_01_f_2015_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent hole is at least 4 ft. deep and needs to be backfilled and compacted.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_26\_20151005\_00041.jpg



View of the rodent hole on the levee crown.

LM Start	1.41	Rating **	U	Issue No.	961
LM End	1.41	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806323 °	37.806323 °
				-121.406149 °	-121.406149 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46720					
DS_ID:24667					
EP_NO: N/A					
FS_HLM: 1.439					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - if abandoned, it needs proper abandonment. Pipe damaged and open on both ends.					
FIELD_STRUCT_DESC: A 6-inch PVC pipe through the levee, 2 ft. below the crown and open both ends. Field study discovered pipe.					
FS Date: 09/12/2013					

Photo 1 of 3 : UCIP\_FA\_2015\_1799.jpg



LS view: 6-inch pvc pipe on levee slope. Pipe end open.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	<b>1.41</b>	Rating **	U	Issue No.	<b>961 (cont)</b>
LM End	<b>1.41</b>	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806323 °	37.806323 °
				-121.406149 °	-121.406149 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46720 DS_ID:24667 EP_NO: N/A FS_HLM: 1.439 Repair Type: Urgent Crossing Status: Found UCIP Comments: - if abandoned, it needs proper abandonment. Pipe damaged and open on both ends. FIELD_STRUCT_DESC: A 6-inch PVC pipe through the levee, 2 ft. below the crown and open both ends. Field study discovered pipe. FS Date: 09/12/2013					

LM Start	<b>1.41</b>	Rating **	U	Issue No.	<b>961 (cont)</b>
LM End	<b>1.41</b>	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP\_FA\_2015\_1800.jpg



WS view: inside view of pvc pipe. Sediments found inside the pipe.

Photo 3 of 3 : UCIP\_FA\_2015\_1801.jpg



WS view: 6-inch pvc pipe on levee slope. Pipe end open and damaged.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	962
LM End	1.41	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806323 °	37.806323 °
				-121.406155 °	-121.406155 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21585 DS_ID:23045 EP_NO: N/A FS_HLM: 1.4392 Repair Type: Non-Urgent Crossing Status: Found					

LM Start	<b>1.41</b>	Rating **	M	Issue No.	<b>962 (cont)</b>
LM End	<b>1.41</b>	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP\_FA\_2015\_1802.jpg



LS view: exposed steel pipe on levee slope.

Photo 2 of 3 : UCIP\_FA\_2015\_2347.jpg



WS view: exposed steel pipe with siphon breaker. Looks siphon breaker needs repair.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	962 (cont)	
LM End	1.41	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.806323 °	37.806323	
				-121.406155 °	-121.406155	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:21585 DS_ID:23045 EP_NO: N/A FS_HLM: 1.4392 Repair Type: Non-Urgent Crossing Status: Found						

Photo 3 of 3 : UCIP\_FA\_2015\_2348.jpg



WS view: exposed steel pipe on levee slope. A pvc pipe on left.

LM Start	1.43	Rating **	M	Issue No.	52
LM End	1.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.806378 °	37.806378 °
				-121.406486 °	-121.406486 °
DWR ID	DWR_RD2089_01_f_2013_52				
Action/Comments					
Prunings					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_52\_20150910\_00029.jpg



View of the tree branches obstructing landside levee slope.

LM Start	1.44	Rating **	M	Issue No.	49
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.806383 °	37.806383
				-121.406599 °	-121.406599
DWR ID	DWR_RD2089_01_s_2012_49				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Deep burrow on waterside needs to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_316\_49\_20150910\_00028.jpg



11/10/2011 Deep burrow on waterside.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.51	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.48	Rating **	U	Issue No.	963
LM End	1.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.806520 °	37.806520 °
				-121.407392 °	-121.407392 °
DWR ID					

**Action/Comments**

Inspector Comments: FS\_ID:46090  
 DS\_ID:23046  
 EP\_NO: 4133A  
 FS\_HLM: 1.49  
 Repair Type: Urgent  
 Crossing Status: Found  
 UCIP Comments: Crossing appears abandoned; if so, should be done so properly. Pipe open on WS. Holes and cracks visible on pipe.  
 FIELD\_STRUCT\_DESC: Concrete sleeve appr. 12-inch dia, containing steel pipe, appr. 8 ft below crown on WS slope only. Pipe does not cross channel and may not cross levee. May be related to gasoline crossing with DS ID 25121. Discovered from boat on 2015 DWR Erosion Survey.  
 FS Date: 06/25/2015

LM Start	<b>1.48</b>	Rating **	U	Issue No.	<b>963 (cont)</b>
LM End	<b>1.48</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2015\_6036.jpg



View up WS slope from water. Pipe does not cross channel.

Photo 2 of 2 : UCIP\_FA\_2015\_6037.jpg



Gasline marker (for crossing with DS ID 25121) appr. 100 ft west of crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 02 Salmon Slough			Right	1.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/05/2015 - 05/08/2015		09/29/2015 - 09/29/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Mario Jaques			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.07	Rating **	U	Issue No.	4
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807375 °	37.807375
				-121.408605 °	-121.408605
DWR ID	DWR_RD2089_02_s _ 2012_4				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo.					

Photo 1 of 2 : FA\_2015\_RD2089\_317\_4\_20150910\_00003.jpg



05/24/2011 Updated photo of issue noted in Fall 2010 inspection.

LM Start	<b>0.07</b>	Rating **	U	Issue No.	<b>4 (cont)</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2015\_RD2089\_317\_4\_20150910\_00004.jpg



Fall 2009 photo of unacceptable vegetation on levee slope.

LM Start	0.08	Rating **	M	Issue No.	19
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807486 °	37.807486 °
				-121.408791 °	-121.408791 °
DWR ID	DWR_RD2089_02_s _ 2013_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Vegetation on the levee slope and toe is partially obstructive.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_19\_20150910\_00020.jpg



View of the vegetation on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.16	Rating **	U	Issue No.	48
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.808583 °	37.808583 °
				-121.409432 °	-121.409432 °
DWR ID	DWR_RD2089_02_f_2013_48				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_48\_20150910\_00031.jpg



View of the rodent burrow on the landside levee slope.

LM Start	0.21	Rating **	M	Issue No.	49
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.809148 °	37.809148 °
				-121.409897 °	-121.409897 °
DWR ID	DWR_RD2089_02_f_2013_49				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_49\_20150910\_00032.jpg



View of the multiple rodent burrows on the landside levee hinge and slope.

LM Start	0.26	Rating **	M	Issue No.	24
LM End	0.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.809717 °	37.809717 °
				-121.410511 °	-121.410511 °
DWR ID	DWR_RD2089_02_s_2012_24				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_24\_20150910\_00023.jpg



05/24/2011 Active burrows, ground squirrel sighted in area.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.28	Rating **	M	Issue No.	52
LM End	0.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.809899 °	37.809997 °
				-121.410888 °	-121.411298 °
DWR ID	DWR_RD2089_02_f_2013_52				
Action/Comments					
Prunings Inspector Comments: Remove prunings and other debris from the levee toe.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_52\_20150910\_00034.jpg



View of the tree branches on the landside levee toe obstructing access.

LM Start	0.28	Rating **	U	Issue No.	51
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.809899 °	37.809899
				-121.410889 °	-121.410889
DWR ID	DWR_RD2089_02_f_2013_51				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_51\_20150910\_00033.jpg



View of the rodent burrow on the landside levee toe.

LM Start	0.30	Rating **	U	Issue No.	53
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.809977 °	37.810022 °
				-121.411189 °	-121.411387 °
DWR ID	DWR_RD2089_02_f_2013_53				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Exterminating rodents and grouting the burrows recommended.					

Photo 1 of 3 : FA\_2015\_RD2089\_317\_53\_20150910\_00035.jpg



View of the multiple rodent burrows on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.30	Rating **	U	Issue No.	53 (cont)	
LM End	0.31	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			37.809977 °	37.810022 °	
				-121.411189 °	-121.411387 °	
DWR ID	DWR_RD2089_02_f_2013_53					
Action/Comments						
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Exterminating rodents and grouting the burrows recommended.						

Photo 2 of 3 : FA\_2015\_RD2089\_317\_53\_20150910\_00036.jpg



View of the rodent burrow on the landside levee slope.

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>53 (cont)</b>
LM End	<b>0.31</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA\_2015\_RD2089\_317\_53\_20150910\_00037.jpg



Another view of the multiple rodent burrows on the landside levee slope.

LM Start	0.35	Rating **	A/W	Issue No.	2
LM End	0.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.810106 °	37.810106 °
				-121.412133 °	-121.412133 °
DWR ID	DWR_RD2089_02_s_2012_2				
Action/Comments					
Fence					
Inspector Comments: Gates across levee.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_2\_20150910\_00002.jpg



View of gate across levee crown.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.36	Rating **	M	Issue No.	26
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.810125 °	37.810125 °
				-121.412317 °	-121.412317 °
DWR ID	DWR_RD2089_02_s _ 2012_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Active burrow needs to be repaired.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_26\_20150910\_00024.jpg



05/24/2011 Active rodent burrow.

LM Start	0.38	Rating **	U	Issue No.	8
LM End	0.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810109 °	37.814363 °
				-121.412619 °	-121.414297 °
DWR ID	DWR_RD2089_02_s _ 2012_8				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco leaf and other brush block access and visibility.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_8\_20151005\_00041.jpg



View of tall vegetation limiting visibility and access on the levee.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.40	Rating **	M	Issue No.	1
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809960 °	37.809960 °
				-121.413200 °	-121.413200 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed.  
 08/23/2011: No significant change observed on site.  
 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots.  
 08/05/2010: Recommended for repair, per CLRO.  
 09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40, LM0.30; previously rated "U"; pictures will be made available during the next survey.  
 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2015 Site ID:RD2089U02RM28.35]

Photo 1 of 2 : SJR2015\_RD2089U02RM28.35\_7.jpg



View of the site from the survey boat.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.40	Rating **	M	Issue No.	1 (cont)	
LM End	0.41	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.809960 °	37.809960 °	
				-121.413200 °	-121.413200 °	
DWR ID						
Action/Comments						
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: No significant change observed on site. 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots. 08/05/2010: Recommended for repair, per CLRO. 09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey. 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2015 Site ID:RD2089U02RM28.35]						

Photo 2 of 2 : SJR2015\_RD2089U02RM28.35\_8.jpg



View of the site from the survey boat.

LM Start	0.42	Rating **	U	Issue No.	28
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810371 °	37.812672 °
				-121.413397 °	-121.415437 °
DWR ID	DWR_RD2089_02_f_2015_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_28\_20151005\_00042.jpg



View of the tall vegetation obstructing visibility and access.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.44	Rating **	M	Issue No.	27
LM End	0.44	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.810490 °	37.810490
				-121.413638 °	-121.413638
DWR ID	DWR_RD2089_02_s _ 2012_27				
Action/Comments					
Building					
Inspector Comments: Portable toilet on bank, at water's edge.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_27\_20150910\_00025.jpg



05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

LM Start	0.46	Rating **	M	Issue No.	13
LM End	0.46	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.810691 °	37.810691 °
				-121.414014 °	-121.414014 °
DWR ID	DWR_RD2089_02_s _ 2012_13				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Two old burrows that need to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_13\_20150910\_00015.jpg



11/10/2011 Two large burrows on crown, need to be filled.

LM Start	0.47	Rating **	M	Issue No.	10
LM End	0.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.810714 °	37.810714 °
				-121.414057 °	-121.414057 °
DWR ID	DWR_RD2089_02_s _ 2012_10				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: Surface depression needs to be filled.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_10\_20150910\_00011.jpg



11/10/2011 Depression in crown needs to be filled.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.50	Rating **	U	Issue No.	54
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.810989 °	37.810989 °
				-121.414517 °	-121.414517 °
DWR ID	DWR_RD2089_02_f_2013_54				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_54\_20150910\_00038.jpg



View of the rodent burrow on the landside levee slope.

LM Start	0.52	Rating **	U	Issue No.	14
LM End	0.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.811150 °	37.811150 °
				-121.414748 °	-121.414748 °
DWR ID	DWR_RD2089_02_s_2012_14				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comments: 11/10/2011 Repair damage to slope caused by livestock.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_14\_20150910\_00016.jpg



11/10/2011 Approximately 1' scarp has been created by livestock travel.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	58
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.811369 °	37.811369 °
				-121.415050 °	-121.415050 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:21676 DS_ID:23047 EP_NO: N/A FS_HLM: 0.555 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - air relief valve on waterside. Needs repair.- concrete standpipe on landside. FIELD_STRUCT_DESC: 14-inch pipe through the levee, 8.0 feet below the crown, pump on pile structure in the stream. Air relief valve on the waterside slope. Timber walkway to the pump. Concrete distribution standpipe on landside toe. Originally included in O+M (1968) FS Date: 09/12/2013					

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>58 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP\_FA\_2015\_0721.jpg



WS view: pipe (left) and steel walkway to pump on piling structure in the channel.

Photo 2 of 3 : UCIP\_FA\_2015\_0722.jpg



WS view: air relief valve on pipe. Pipe exposed in levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	58 (cont)
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.811369 °	37.811369 °
				-121.415050 °	-121.415050 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21676					
DS_ID:23047					
EP_NO: N/A					
FS_HLM: 0.555					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP\_FA\_2015\_0723.jpg



WS view: pipe and pump on piling structure in water channel.

LM Start	0.54	Rating **	M	Issue No.	35
LM End	0.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.811382 °	37.811382 °
				-121.415054 °	-121.415054 °
DWR ID	DWR_RD2089_02_f_2015_35				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 4 : FA\_2015\_RD2089\_317\_35\_20151005\_00044.jpg



View of the levee crown depression looking upstream.

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 4 : FA\_2015\_RD2089\_317\_35\_20151005\_00045.jpg



View of the levee crown depression looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	35 (cont)
LM End	0.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.811382 °	37.811382 °
				-121.415054 °	-121.415054 °
DWR ID	DWR_RD2089_02_f_2015_35				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 3 of 4 : FA\_2015\_RD2089\_317\_35\_20151005\_00046.jpg



View of the levee crown depression looking to the landside.

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	Ma	Location *	CR

Photo 4 of 4 : FA\_2015\_RD2089\_317\_35\_20151005\_00047.jpg



View of the levee crown depression looking to the waterside.

LM Start	0.77	Rating **	M	Issue No.	15
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.813969 °	37.813969
				-121.414324 °	-121.414324
DWR ID	DWR_RD2089_02_f_2014_15				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_15\_20150910\_00017.jpg



View of the scour from surface runoff on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.80	Rating **	U	Issue No.	36
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814421 °	37.814913 °
				-121.414203 °	-121.414594 °
DWR ID	DWR_RD2089_02_s _ 2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_36\_20150910\_00027.jpg



Extremely thick dead brush prevents access and visibility.

LM Start	0.83	Rating **	M	Issue No.	21
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814773 °	37.814773 °
				-121.414555 °	-121.414555 °
DWR ID	DWR_RD2089_02_s _ 2012_21				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comments: Livestock have worn paths into levee slope.					

No Photos

LM Start	0.83	Rating **	M	Issue No.	38
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814844 °	37.814844 °
				-121.414566 °	-121.414566 °
DWR ID	DWR_RD2089_02_s _ 2012_38				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.84	Rating **	A/W	Issue No.	9
LM End	0.84	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.814881 °	37.814881 °
				-121.414676 °	-121.414676 °
DWR ID	DWR_RD2089_02_s _ 2012_9				
Action/Comments					
Fence					
Inspector Comments: Gate across levee crown.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_9\_20150910\_00010.jpg



View of the fence gate across levee crown.

LM Start	0.84	Rating **	M	Issue No.	25
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814906 °	37.814906 °
				-121.414745 °	-121.414745 °
DWR ID	DWR_RD2089_02_s _ 2012_25				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope.					

No Photos

LM Start	0.85	Rating **	U	Issue No.	40
LM End	0.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814997 °	37.814970 °
				-121.414774 °	-121.415767 °
DWR ID	DWR_RD2089_02_s _ 2012_40				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and landside ramp.					

Photo 1 of 3 : FA\_2015\_RD2089\_317\_40\_20150910\_00028.jpg



05/24/2011 Deep vertical burrow in ramp on land side of levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.85	Rating **	U	Issue No.	40 (cont)
LM End	0.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814997 °	37.814970 °
				-121.414774 °	-121.415767 °
DWR ID	DWR_RD2089_02_s _ 2012_40				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and landside ramp.					

Photo 2 of 3 : FA\_2015\_RD2089\_317\_40\_20150910\_00029.jpg



05/24/2011 Deep vertical burrow in levee crown.

LM Start	<b>0.85</b>	Rating **	U	Issue No.	<b>40 (cont)</b>
LM End	<b>0.90</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA\_2015\_RD2089\_317\_40\_20151005\_00043.jpg



View of the multiple rodent holes on the landside levee slope.

LM Start	0.91	Rating **	M	Issue No.	22
LM End	0.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814903 °	37.814903 °
				-121.415887 °	-121.415887 °
DWR ID	DWR_RD2089_02_s _ 2015_22				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	0.94	Rating **	M	Issue No.	41
LM End	0.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.814940 °	37.814940 °
				-121.416499 °	-121.416499 °
DWR ID	DWR_RD2089_02_s_2012_41				
Action/Comments					
Pipe					
Inspector Comments: Debris/CMP on levee slope needs to be removed.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_41\_20150910\_00030.jpg



05/24/2011 Old CMP left on waterside levee slope, needs to be removed.

LM Start	0.95	Rating **	U	Issue No.	5
LM End	0.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814915 °	37.814915 °
				-121.416606 °	-121.416606 °
DWR ID	DWR_RD2089_02_s_2014_5				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_5\_20150910\_00005.jpg



View of the rodent holes on the landside levee slope.

LM Start	1.00	Rating **	U	Issue No.	12
LM End	1.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.815182 °	37.815182 °
				-121.417439 °	-121.417439 °
DWR ID	DWR_RD2089_02_f_2014_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA\_2015\_RD2089\_317\_12\_20150910\_00013.jpg



View of several large rodent holes on the levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.00	Rating **	U	Issue No.	12 (cont)	
LM End	1.00	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			37.815182 °	37.815182	
				-121.417439 °	-121.417439	
DWR ID	DWR_RD2089_02_f_2014_12					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						

Photo 2 of 2 : FA\_2015\_RD2089\_317\_12\_20150910\_00014.jpg



View of several rodent burrows on landside levee hinge and crown.

LM Start	1.05	Rating **	N	Issue No.	29
LM End	1.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.815629 °	37.815629
				-121.418133 °	-121.418133
DWR ID	DWR_RD2089_02_s_2012_29				
Action/Comments					
Tree stumps. Inspector Comments: 14" dia stump. Could not verify as the area is overgrown with high weeds.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_29\_20150910\_00026.jpg



Tree stump &gt;2" left after vegetation and tree removal.

LM Start	1.09	Rating **	M	Issue No.	17
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.816100 °	37.816100 °
				-121.418487 °	-121.418487 °
DWR ID	DWR_RD2089_02_s_2012_17				
Action/Comments					
Debris					
Inspector Comments: Water tanks disposed of on levee are obstructive.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_17\_20150910\_00018.jpg



View of water tanks disposed on waterside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.12	Rating **	M	Issue No.	30
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.816487 °	37.816487 °
				-121.418948 °	-121.418948 °
DWR ID	DWR_RD2089_02_s _ 2012_30				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.18	Rating **	M	Issue No.	6
LM End	1.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.817271 °	37.817271 °
				-121.419380 °	-121.419380 °
DWR ID	DWR_RD2089_02_s _ 2014_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_6\_20150910\_00006.jpg



View of the large rodent hole on the landside levee slope.

LM Start	1.22	Rating **	M	Issue No.	7
LM End	1.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.817796 °	37.817796 °
				-121.419650 °	-121.419650 °
DWR ID	DWR_RD2089_02_s _ 2014_7				
Action/Comments					
Crops					
Inspector Comments: Animal feed stored at the landside levee toe.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_7\_20150910\_00007.jpg



View of the animal feed stockpiled at the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.24	Rating **	M	Issue No.	31
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818051 °	37.818051 °
				-121.419743 °	-121.419743 °
DWR ID	DWR_RD2089_02_s _ 2012_31				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.25	Rating **	C	Issue No.	20
LM End	1.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818239 °	37.818239
				-121.419720 °	-121.419720
DWR ID	DWR_RD2089_02_s _ 2015_20				
Action/Comments					
Material					

No Photos

LM Start	1.25	Rating **	U	Issue No.	23
LM End	1.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818277 °	37.819040 °
				-121.419725 °	-121.419760 °
DWR ID	DWR_RD2089_02_s _ 2012_23				
Action/Comments					
Building Inspector Comments: Buildings and equipment encroach within 10-ft of lanside toe. The boat was removed.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_23\_20150910\_00022.jpg



Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.27	Rating **	M	Issue No.	57
LM End	1.27	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818499 °	37.818499 °
				-121.419754 °	-121.419754 °
DWR ID	DWR_RD2089_02_f_2013_57				
Action/Comments					
Landscaping					
Inspector Comments: Remove cactus from levee crown.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_57\_20150910\_00039.jpg



View of the cactus on the landside levee shoulder.

LM Start	1.29	Rating **	M	Issue No.	32
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818829 °	37.818829 °
				-121.419776 °	-121.419776 °
DWR ID	DWR_RD2089_02_s_2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.29	Rating **	U	Issue No.	18
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818864 °	37.818864 °
				-121.419756 °	-121.419756 °
DWR ID	DWR_RD2089_02_s_2015_18				
Action/Comments					
Firewood					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_18\_20150910\_00019.jpg



View of the firewood piled at the landside levee toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.35	09/29/2015 09/29/2015	Maksim Khashchuk

LM Start	1.30	Rating **	M	Issue No.	16
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818987 °	37.818987 °
				-121.419767 °	-121.419767 °
DWR ID	DWR_RD2089_02_s _ 2015_16				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.33	Rating **	U	Issue No.	11
LM End	1.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.819371 °	37.819371 °
				-121.419774 °	-121.419774 °
DWR ID	DWR_RD2089_02_f _ 2014_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2089\_317\_11\_20150910\_00012.jpg



View of the multiple rodent burrows on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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